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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO		
09 893,973	06-29/2001	Sun-Tack Shim	1751-290	6142		
6449 75	590 06.05 2003					
ROTHWELL, FIGG, ERNST & MANBECK, P.C. 1425 K STREET, N.W. SUITE 800			EXAMINER			
			PRATT, HELEN F			
WASHINGTO	N, DC 20005		ART UNIT	PAPER NUMBER		
			1761	7		
			DATE MAILED: 06/05/2003	DATE MAILED: 06/05/2003		

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)	- ye - '
		09/893,973	SHIM ET AL.	1
Office Action Summary		Examiner	Art Unit	<u> </u>
		Helen F. Pratt	1761	
	The MAILING DATE of this communication a			ddress
	or Reply			
THE I - External after - If the - If NC - Failu - Any r	ORTENED STATUTORY PERIOD FOR REP MAILING DATE OF THIS COMMUNICATION nsions of time may be available under the provisions of 37 CFR 1 SIX (6) MONTHS from the mailing date of this communication. period for reply specified above is less than thirty (30) days, a represent of the period for reply is specified above, the maximum statutory perioner to reply within the set or extended period for reply will, by statuely received by the Office later than three months after the mailed patent term adjustment. See 37 CFR 1.704(b).		reply be timely filed rty (30) days will be considered time NTHS from the mailing date of this BANDONED (35 U.S.C. § 133).	
1)[Responsive to communication(s) filed on 16	6 April 2003 .		
2a)[This action is FINAL . 2b)⊠ 7	This action is non-final.		
3)	Since this application is in condition for allow closed in accordance with the practice under			he merits is
·	on of Claims			
	Claim(s) 1-12 is/are pending in the application			
	4a) Of the above claim(s) is/are withdr	awn from consideration.		
	Claim(s) is/are allowed.			
	Claim(s) <u>1, 2, 3, 6, 8, 10-12</u> is/are rejected.			
·	Claim(s) <u>4,5,7 and 9</u> is/are objected to.			
	Claim(s) are subject to restriction and	or election requirement.		
· · _	ion Papers			
	The specification is objected to by the Examir		Alex Electrical	
10)	The drawing(s) filed on is/are: a) acc	•		
11)	Applicant may not request that any objection to The proposed drawing correction filed on		• •	
''/	If approved, corrected drawings are required in a		disapproved by the Examin	1101.
12)	The oath or declaration is objected to by the E			
	under 35 U.S.C. §§ 119 and 120			
	Acknowledgment is made of a claim for forei	an priority under 35 U.S.C.	8 119(a)-(d) or (f)	
	☐ All b)☐ Some * c)☐ None of:	gir priority ariable do biolo.	3 (10(4) (4) 01 (1).	
٠,	1. Certified copies of the priority docume	nts have been received		
	Certified copies of the priority document		Application No.	
	3. Copies of the certified copies of the pri			l Stage
* 5	application from the International E See the attached detailed Office action for a list	Bureau (PCT Rule 17.2(a)).		
14) 🗌 A	Acknowledgment is made of a claim for domes	stic priority under 35 U.S.C	. § 119(e) (to a provisiona	al application)
) \square The translation of the foreign language p Acknowledgment is made of a claim for dome	· · ·		
Attachmen	t(s)			
2) 🔲 Notic	te of References Cited (PTO-892) te of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice o	Summary (PTO-413) Paper Note Informal Patent Application (P	
3. Patent and T	rademark Office	Action Summary	Part of Paper No.	7

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DETAILED ACTION

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1, 6, 12 are rejected under 35 U.S.C. 103(a) as being unpatentable over Lee (4,336,273) in view of Hsieh (4,844,933) and Subramaniam et al. (5,645,876) and Mori (JP 63258558A) and Simpukas (6,139,890).

Lee discloses a process of treating vegetables by washing, seed removal cutting into halves, chunks, slices or strips and then heating the cut vegetables to high temperatures of 121 C for 20 minutes which are considered to be sterilizing temperatures (col. 3, lines 65-70, col. 4, lines 1-5, col. 6, lines 15-35). Claim 1 differs from the reference in optionally sterilizing the surfaces of the peppers and in the use of high-pressure steam, drying the peppers and grinding the peppers. Sterilizing the surfaces of the peppers is an optional limitation. However, Simpukas discloses that it is known to reduce bacterial contamination of vegetables by the use of chemicals such as caroboxylic acids (col. 3, lines 3-40). Hsieh et al. disclose that it is known to use high-temperature and pressure steam (abstract and col. 4, lines 34-40). The steam is considered to be high temperature because steam is known to be made when water is heated above 100 C. and the specification discloses a temperature range of 90-120 C. (page 7, lines 11-17). The process is conducted at from 5 to 50 psi (col. 4, lines 35-40).

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Subramaniam et al. disclose that it is known to dehydrate vegetables by conventional methods such as vacuum drying or forced air drying (col. 3, lines 10-14). Freeze drying is also considered to be conventional. Mori et al. disclose that it is known to dry red pepper, and grind it (abstract). Therefore, it would have been obvious to use high pressure steam and chemicals, and, to grind and then dehydrate the vegetable in the process of Lee.

Claim 6 further requires treating at 90-120 C for 1-10 minutes. Hsieh et al. disclose that vegetables can be treated with steam from 10 seconds up to five minutes and disclose that it would have been within the skill in the art to determine the temperature of the steam and length of injection into the vessel depending on the characteristics of the vegetable product being treated, and in particularly the subsequent treatment of the product. Retention of volatile oil and appearance is also said to vary from one plant to another (col. 4, lines 48-66). Therefore, it would have been obvious to treat the peppers for a particular length of time in the process of the combined references.

Claim 12 is to removing foreign objects and material before grinding using a laser and after grinding to separate iron particles from the particles after grinding. However, removing foreign particles is routine in the food processing field and it would have been obvious to remove them at points at which it was practical. For instance, magnets are routinely used in processing cereals to remove foreign objects. Therefore, it would have been obvious to remove foreign object from the peppers.

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Claims 2 and 3 are rejected under 35 U.S.C. 103(a) as being unpatentable over the above combined references as applied to claims 1, 6, 12 above, and further in view of Jakobsson et al.

Claim 2 further requires deep-freezing and storing the peppers and claim 3 freezing at particular times and temperatures. However, deep freezing is a well known method of treating vegetables as seen in the frozen food section of grocery stories. Also, Jakobsson et al. disclose that it is known to blanch apple pieces and then dry by convention and to freeze them (abstract). Therefore, it would have been obvious to freeze vegetables after the treatment of claim 1.

Claim 8 is rejected under 35 U.S.C. 103(a) as being unpatentable over the above combined references as applied to 1, 6, and 12 and further in view of Waitman et al.

Claim 8 further requires treating the sterilized peppers with a sugar solution.

Applicants disclose on page 4, lines 1-5 that using a glucose solution is conventional.

Waitman et al. also disclose that it is known to infuse a hydrophilic carbohydrate into fresh grapes followed by drying (abstract). Therefore, it would have been obvious to treat peppers with a sugar solution in the process of the combined references.

Claim 10 is rejected under 35 U.S.C. 103(a) as being unpatentable over the above combined references as applied to claims 1, 6, 12 and further in view of Linaberry (3,973,047).

Two stages of drying are disclosed as in claim 10 by Linaberry et al. in col. 5, lines 5-35, in particularly green bell pepper (lines 45-46). Therefore, it would have been obvious to dry at the claimed temperatures.

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Claim 11 is rejected under 35 U.S.C. 103(a) as being unpatentable over the above combined references as applied to claims 1, 6, 12 above, and further in view of Costanzo et al. (5,518,740).

Claim 11 requires that the peppers are dried by deep freezing then freeze dried. Costanzo et al. disclose that it is known to prefreeze ingredients and then to freeze dry fruit. Freeze drying is carried out at plus 30 degrees C. This would encompass the claimed range (col. 6, lines 30-49). Therefore, it would have been obvious to freeze and then freeze dry other plant materials such as peppers as the process is known.

Allowable Subject Matter

Claims 4, 5, 7, 9 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Helen F. Pratt whose telephone number is 703-308-1978. The examiner can normally be reached on Monday to Friday from 9:30 to 6:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mr. Milton Cano, can be reached on (703) 308-3959. The fax phone number for the organization where this application or proceeding is assigned is 703-305-7718.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0651.

HELEN PRATT
PRIMARY EXAMINER